

REMARKS

Claims 1 and 3-9 are pending in the application. Claims 1 and 3-5 have been amended herein. Favorable reconsideration of the application, as amended, is respectfully requested.

Claim 1 has been amended to define further the features of the invention as is discussed below in more detail. Claims 3-5 have been amended to provide consistency.

I. REJECTION OF CLAIMS 1 AND 3-7 UNDER 35 USC §103(a)

Claims 1 and 3-7 are now rejected under 35 USC §103(a) based on *Wahle et al.* in view of *Jones*. Applicants respectfully request withdrawal of the rejection for at least the following reasons.

Claim 1 has been amended to emphasize how the liquid pipe (4) among a separate gas pipe (2) and a liquid pipe (4) is connected to an under portion of the condenser (3) and extends downward toward the heat absorption portion (1). The working fluid that has passed through the condenser (3) is made to fall on an upper portion of the curved surface of the heat absorption portion (1a) through the liquid pipe (4).

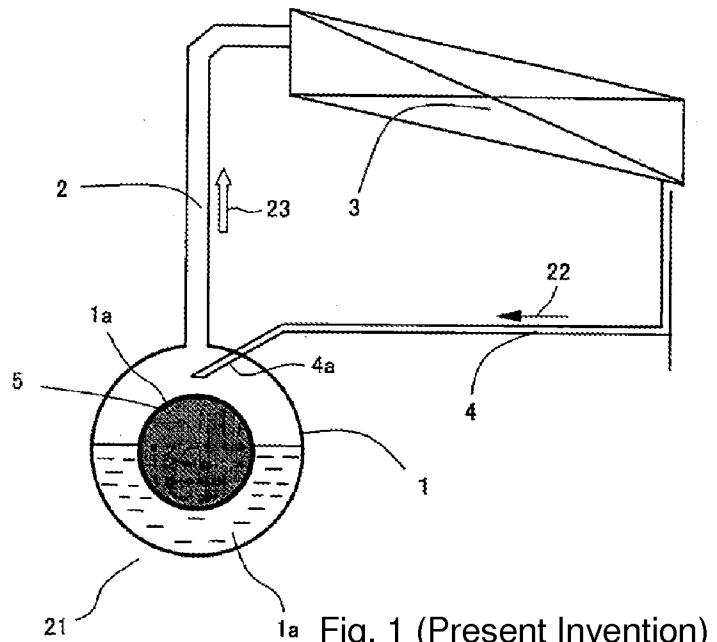


Fig. 1 (Present Invention)

Neither *Walhe et al.* nor *Jones* teach or suggest a loop-type thermosiphon having the aforementioned characteristics. Applicants respectfully request withdrawal of the rejection.

FIG.4

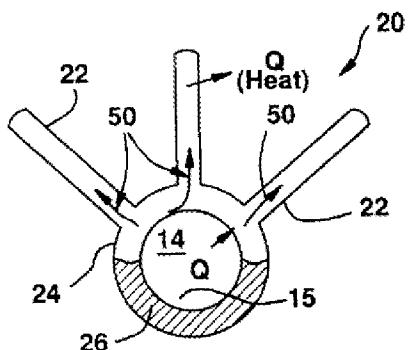
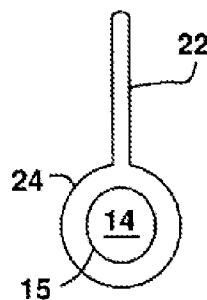


FIG.7A

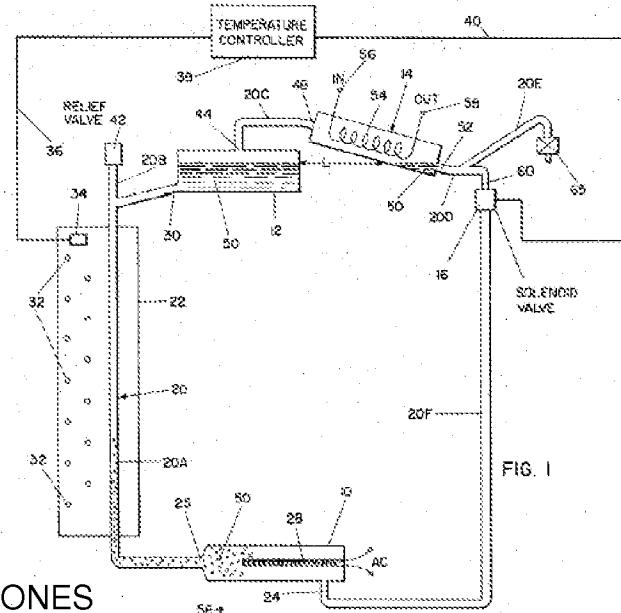


WAHLE ET AL.

More specifically, *Wahle et al.* does not teach or suggest a separate liquid pipe and gas pipe, the liquid pipe being connected to an upper portion of the condenser and extending downward toward the heat absorption portion. Referring to Figs. 4 and 7A of *Wahle et al.* (reproduced above), a single heat pipe 22 extends above the pipeline 15. There is no loop formed by a liquid pipe and a gas pipe as recited in claim 1.

Furthermore, there is no liquid pipe that is connected to an upper portion of the condenser as recited in claim 1. To the extent the heat pipe 22 may serve as a liquid pipe and the condenser, the condensing portion of the heat pipe 22 will always be located above the liquid pipe portion. Thus, the liquid pipe portion cannot be connected to an upper portion of the condenser portion.

Jones does not make up for the deficiencies in *Wahle et al.* As exemplified in Fig. 1 (reproduced herein), to the extent that conduit section 20F may represent a liquid pipe and the heat exchanger 14 represents the condenser, the features of claim 1 still are not met. The conduit section 20F is not connected to an upper portion of the heat exchanger 14 as recited in claim 1. Nor is the working fluid that has passed through the conduit section 20F through the separate liquid pipe made to fall on an upper portion of the heater 10.



Thus, even if taken in combination, *Wahle et al.* and *Jones* do not teach or suggest a liquid pipe which is connected to the under portion of the condenser and through which the working fluid is made to fall on the upper portion of the head absorption portion.

For at least the above reasons, applicants respectfully request withdrawal of the rejection of claim 1 and the claims which depend therefrom.

II. REJECTIONS OF CLAIMS 8 AND 9 UNDER 35 USC §103(a)

Claims 8 and 9 stand rejected under 35 USC §103(a) based on *Wahle et al.* in view of *Jones*, and further in view of *DiPaolo* and *Berchowitz et al.*, respectively.

Applicants respectfully request withdrawal of these rejections for at least the following reasons.

Claims 8 and 9 each depend from claim 1 and can be distinguished over *Wahle et al.* and *Jones* for at least the same reasons discussed above. Furthermore, *DiPaolo* and *Berchowitz et al.* each fail to make up for the deficiencies in *Wahle et al.* and *Jones*.

As a result, applicants respectfully request that the rejections of claims 8 and 9 be withdrawn.

III. CONCLUSION

Accordingly, all claims 1 and 3-9 are believed to be allowable and the application is believed to be in condition for allowance. A prompt action to such end is earnestly solicited.

Should the Examiner feel that a telephone interview would be helpful to facilitate favorable prosecution of the above-identified application, the Examiner is invited to contact the undersigned at the telephone number provided below.

Should a petition for an extension of time be necessary for the timely reply to the outstanding Office Action (or if such a petition has been made and an additional extension is necessary), petition is hereby made and the Commissioner is authorized to charge any fees (including additional claim fees) to Deposit Account No. 18-0988.

Respectfully submitted,

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